



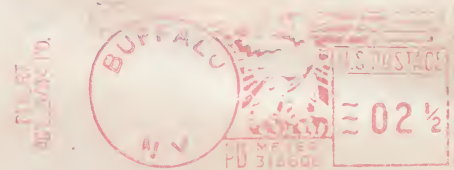
one
source
for all
your

MIL-C-22557

r.f. subminiature
coaxial connectors



MR. T. H. NELSON, SYS. ENGR. I
INTERLOCKING SYSTEMS COMPANY
P.O. BOX 1546
POUGHKEEPSIE, NEW YORK 12603





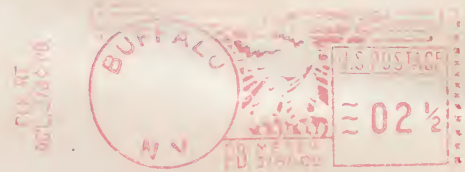
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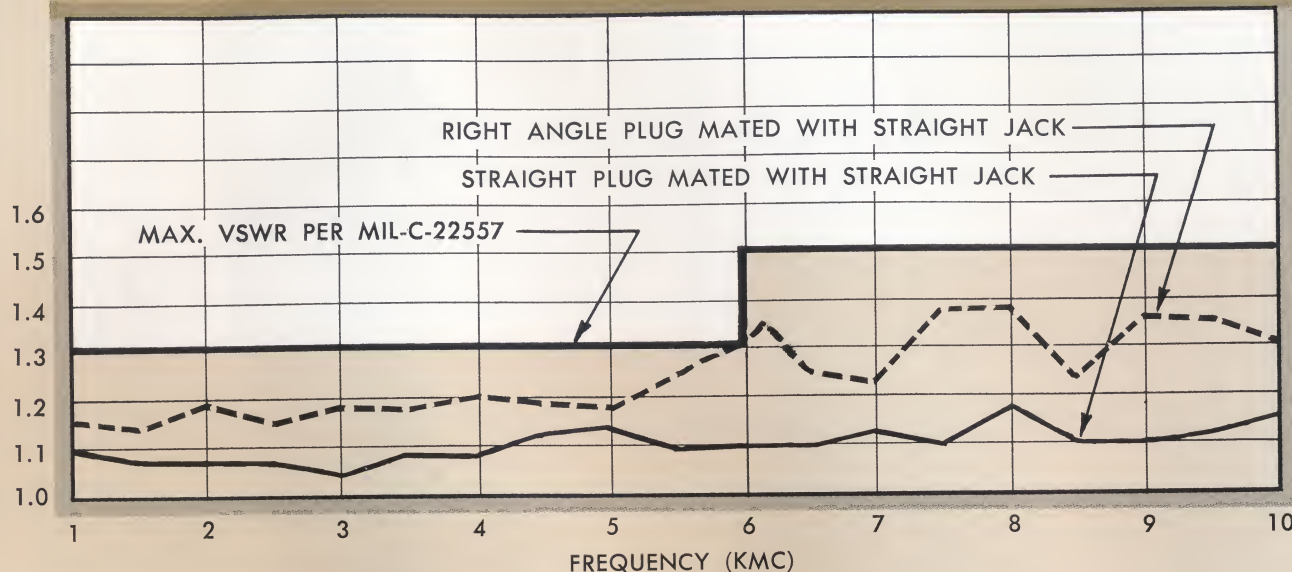


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V
S
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SPECIFICATIONS

ELECTRICAL

Impedance: 50 or 75 ohms.

*Rated Working Voltage: 400 volts RMS @ Sea Level.

Dielectric Withstanding Voltage (minimum ratings)

*1800 volts RMS @ Sea Level

700 volts RMS @ 50,000 feet

500 volts RMS @ 70,000 feet

Contact Current Rating: 1.5 amps DC max.

Contact Voltage Drop: 4 mv max. @ 1 Ampere.

Insulation Resistance: 10⁴ Meg. min.

Voltage Standing Wave Ratio: See Above.

MECHANICAL

Body and body components: Brass per QQ-B-626 comp.

PERFORMANCE

Recommended Temperature range: -65°C to +125°C

Mating Characteristic: In accordance with MIL-C 22557.

Durability: After 5000 cycles of mating and unmating, the connectors show no loosening of parts and no significant change in Electrical Parameters from specified values.

Cable Retention: When properly assembled to the compatible cable, the pullout force is equal to the breaking strength of the cable. See recommended torque values in the ConheX Catalog.

ENVIRONMENTAL

"ConheX" subminiature RF connectors meet or ex-

Contacts, Male — Brass per QQ-B-626 comp. 22, 1/2 Hard Temper.

Contact, Female — Beryllium Copper per QQ-C-530 heat treated per MIL-H-7199.

Insulators: Virgin polytetrafluorethylene-TFE fluorocarbon resin per MIL-M-14077 extruded per MIL-P-19468.

Lockwashers: Phosphor bronze per QQ-B-750.

Clamp Sleeve: Nickel silver.

Clamp Gasket: HyCar per MIL-R-6855.

Plating: .0001" min. Gold per MIL-G-45204, Type II, Class 2, over .0001" min. Copper per MIL-C-14550, Class 4.

to the following specifications:

Vibration: Per MIL-STD-202, Method 204, Test Condition B.

Shock: Per MIL-STD-202, Method 202, Test Condition B.

Thermal Shock: Per MIL-STD-202, Method 107, Test Condition B.

Moisture Resistance: Per MIL-STD-202, Method 106.

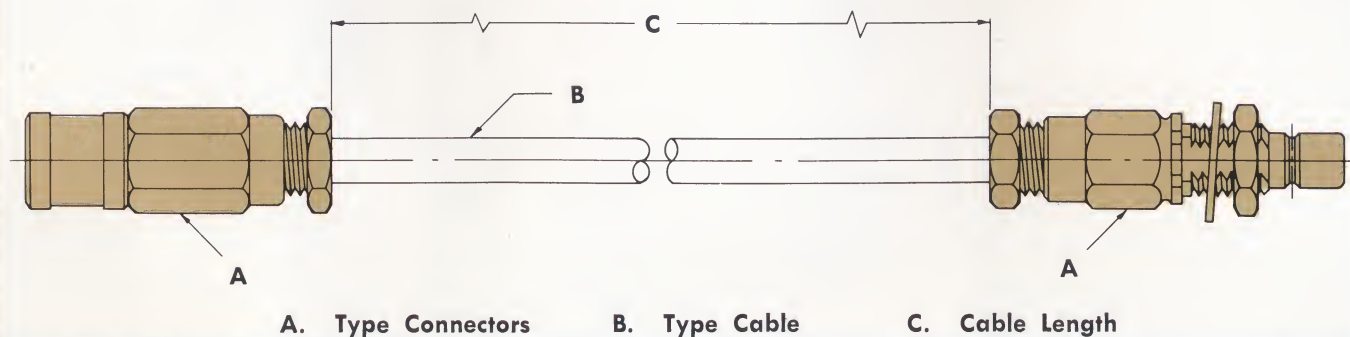
Salt Spray: Per MIL-STD-202, Method 101, Test Condition B.

$$\text{*Derived from: } \frac{\text{RATED WORKING VOLTAGE}}{\text{DIELECTRIC WITHSTANDING VOLTAGE} - 1000} = 2$$

CABLE ASSEMBLIES

As a customer service, a complete custom cable assembly facility is offered by Sealectro. Cable assemblies utilizing "ConheX" connectors are manufactured to customer specifications by personnel trained in subminiature R.F. connector techniques. This custom cable assembly service eliminates the cost of customer maintained assembly facilities and assures the highest standard of reliability.

When specifying "ConheX" cable assemblies, please supply the information indicated below and special features and specifications.





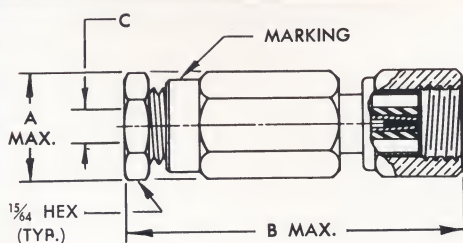
SEAELECTRO

CON

MIL-C-22557 CROSS-

UG-1460/U

MIL-C-22557/10A



DIMENSIONS (in inches)		
A	B	C
$\frac{9}{32}$	$\frac{7}{8}$.089 \pm .005 Dia.

CONNECTOR MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 2 OF MIL-C-22557

MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1460/U	50-007-3196	RG 178/U & RG 196/U

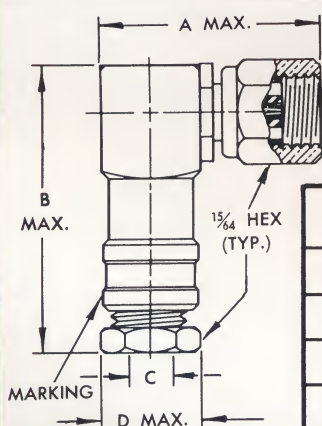
NOTES

Intended use.—Electrical Plug Connector UG-1460/U is designed for use with Radio Frequency Cable RG 178/U and RG 196/U, and with Radio Frequency Connectors UG-1462/U and UG-1463/U.

Crimping tools. — No crimping tools are required to assemble this connector.

UG-1461/U

MIL-C-22557/11A



CONNECTOR MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 2 OF MIL-C-22557

DIMENSIONS (in inches)	
A	$\frac{5}{8}$
B	$\frac{3}{4}$
C	.089 \pm .005 Dia.
D	$\frac{9}{32}$

MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1461/U	50-011-3196	RG 178/U & RG 196/U

NOTES

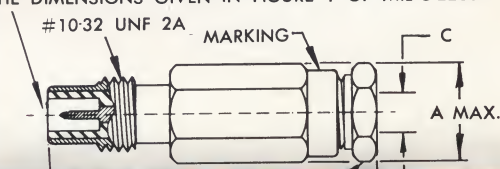
Intended use.—Electrical Plug Connector UG-1461/U is designed for use with Radio Frequency Cable RG 178/U and RG 196/U, and with Radio-Frequency Connectors UG-1462/U and UG-1463/U.

Crimping tools. — No crimping tools are required to assemble this connector.

UG-1462/U

MIL-C-22557/12A

CONNECTOR MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 1 OF MIL-C-22557



MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1462/U	50-008-3196	RG 178/U & RG 196/U

NOTES

Intended use.—Electrical Plug Connector UG-1462/U

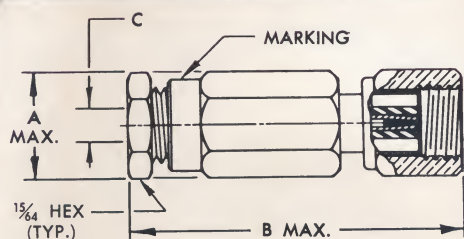


CONNECTORS

REFERENCE SEAELECTRO

UG-1465/U

MIL-C-22557/15A



MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1465/U	50-007-0000	RG 188/U & RG 316/U

NOTES

Intended use.—Electrical Plug Connector UG-1465/U is designed for use with Radio Frequency Cable RG 188/U and RG 316/U and with Radio Frequency Connectors UG-1467/U and UG-1468/U.

Crimping tools. — No crimping tools are required to assemble this connector.

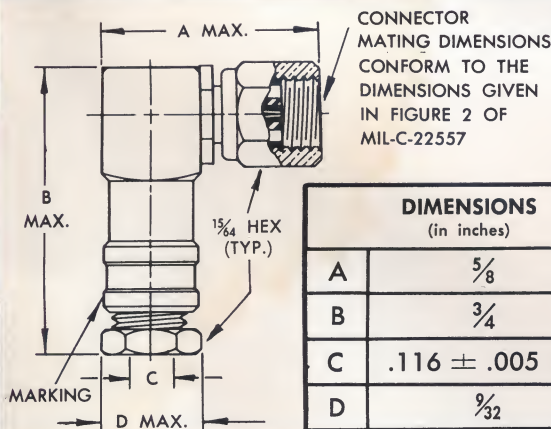
DIMENSIONS (in inches)

A	B	C
$\frac{3}{32}$	$\frac{7}{8}$.116 \pm .005 Dia.

CONNECTOR MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 2 OF MIL-C-22557

UG-1466/U

MIL-C-22557/16A



MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1466/U	50-011-0000	RG 188/U & RG 316/U

NOTES

Intended use.—Electrical Plug Connector UG-1466/U is designed for use with Radio Frequency Cable RG 188/U and RG 316/U, and with Radio Frequency Connectors UG-1467/U and UG-1468/U.

Crimping tools. — No crimping tools are required to assemble this connector.

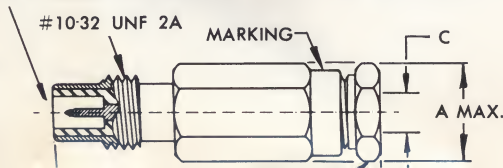
DIMENSIONS (in inches)

A	$\frac{5}{8}$
B	$\frac{3}{4}$
C	.116 \pm .005 Dia.
D	$\frac{9}{32}$

UG-1467/U

MIL-C-22557/17A

CONNECTOR MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 1 OF MIL-C-22557



MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1467/U	50-008-0000	RG 188/U & RG 116/U

NOTES

Intended use.—Electrical Plug Connector UG-1467/U

DIMENSIONS (in inches)		
A	B	C
$\frac{9}{32}$	$\frac{7}{8}$	$.089 \pm .005$ Dia.

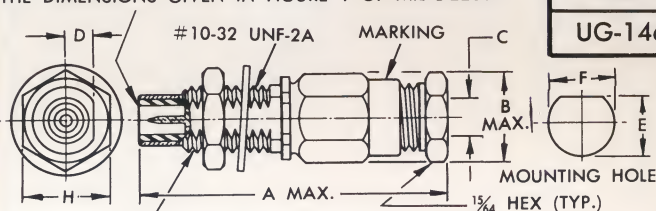
is designed for use with Radio Frequency Cable RG 178/U and RG 196/U, and with Radio Frequency Connectors UG-1460/U and UG-1461/U.

Crimping tools. — No crimping tools are required to assemble this connector.

UG-1463/U

MIL-C-22557/13A

CONNECTING MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 1 OF MIL-C-22557



LENGTH OF THREADS ARE SUFFICIENT TO FACILITATE MOUNTING IN A PANEL "G" DIM. THICK MIN. USING A NUT AND INTERNAL TOOTH LOCKWASHER

DIMENSIONS (in inches)			
A	$\frac{7}{8}$	E	$.180 \pm .003$
B	$\frac{9}{32}$	F	$.195 \pm .003$
C	$.089 \pm .003$	G	$\frac{3}{32}$
D	$.075 \pm .003$	H	$\frac{1}{4}$ Hex

MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1463/U	50-010-3196	RG 178/U & RG 196/U

NOTES

All dimensions in inches.

Unless otherwise specified, tolerances are $\pm \frac{1}{64}$ (0.397mm) on fractions and ± 0.005 (0.127mm) on decimals.

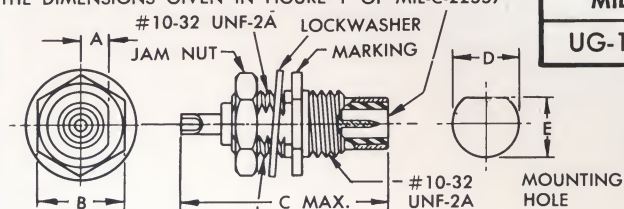
Intended use. — Electrical Receptacle Connector UG-1463/U is designed for use with Radio Frequency Cable RG 178/U and RG 196/U, and with Radio Frequency Connectors UG-1460/U and UG-1461/U.

Crimping tools. — No crimping tools are required to assemble this connector.

UG-1464/U

MIL-C-22557/14A

CONNECTOR MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 1 OF MIL-C-22557



LENGTH OF THREADS ARE SUFFICIENT TO FACILITATE MOUNTING IN A PANEL F DIM. THICK. MIN. USING NUT AND INTERNAL TOOTH LOCKWASHER

DIMENSIONS (in inches)			
A	$.075 \pm .003$	D	$.195 \pm .003$
B	$\frac{1}{4}$ Hex		$.180 \pm .003$
C	$\frac{19}{32}$	F	$\frac{3}{32}$

MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1464/U	50-045-0000	Not Applicable

NOTES

All dimensions in inches.

Unless otherwise specified, tolerances are $\pm \frac{1}{64}$ (0.397mm) on fractions and ± 0.005 (0.127mm) on decimals.

The solder pot shall accommodate at least one AWG size 22 wire.

Intended use. — Electrical Receptacle Connector UG-1464/U is designed for use with subminiature radio-frequency connectors.

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B MAX. $\frac{1}{4}$ HEX (TYP.)

DIMENSIONS (in inches)		
A	B	C
$\frac{3}{32}$	$\frac{7}{8}$.116 \pm .005 Dia.

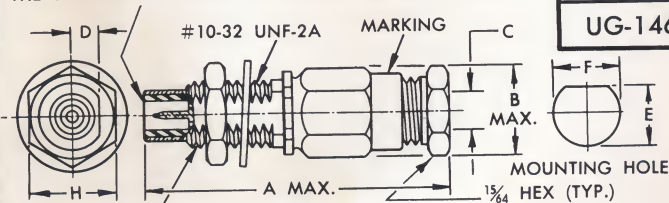
is designed for use with Radio Frequency Cable RG 188/U and RG 316/U, and with Radio Frequency Connectors UG-1465/U and UG-1466/U.

Crimping tools. — No crimping tools are required to assemble this connector.

UG-1468/U

MIL-C-22557/18A

CONNECTING MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 1 OF MIL-C-22557



LENGTH OF THREADS ARE SUFFICIENT TO FACILITATE MOUNTING IN A PANEL "G" DIM. THICK MIN. USING A NUT AND INTERNAL TOOTH LOCKWASHER

MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1468/U	50-010-0000	RG 188/U & RG 316/U

NOTES

All dimensions in inches.

Unless otherwise specified, tolerances are $\pm \frac{1}{64}$ (0.397mm) on fractions and ± 0.005 (0.127mm) on decimals.

Intended use.—Electrical Receptacle Connector UG-1468/U is designed for use with Radio Frequency Cable RG 188/U and RG 316/U, and with Radio Frequency Connectors UG-1465/U and UG-1466/U.

Crimping tools. — No crimping tools are required to assemble this connector.

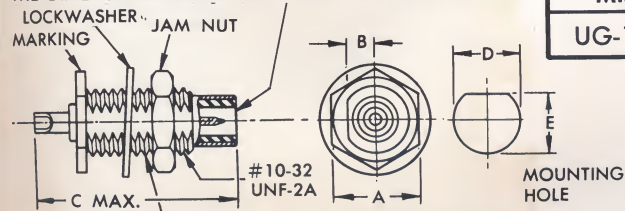
DIMENSIONS (in inches)

A	$\frac{7}{8}$	E	.180 \pm .003
B	$\frac{3}{32}$	F	.195 \pm .003
C	.116 \pm .005	G	$\frac{3}{32}$
D	.075 \pm .003	H	$\frac{1}{4}$ Hex

UG-1619/U

MIL-C-22557/19A

CONNECTOR MATING DIMENSIONS CONFORM TO THE DIMENSIONS GIVEN IN FIGURE 1 OF MIL-C-22557



LENGTH OF THREADS ARE SUFFICIENT TO FACILITATE MOUNTING IN A PANEL F DIM. THICK. MIN. USING NUT AND INTERNAL TOOTH LOCKWASHER

MIL NO.	CONHEX CAT. NO.	CABLE USED
UG-1619/U	50-043-0000	Not Applicable

NOTES

All dimensions in inches.

Unless otherwise specified, tolerances are $\pm \frac{1}{64}$ (0.397mm) on fractions and ± 0.005 (0.127mm) on decimals.

The solder pot shall accommodate at least one AWG size 22 wire.

Intended use.—Electrical Receptacle Connector UG 1619/U is designed for use with subminiature radio-frequency connectors.

DIMENSIONS (in inches)

A	$\frac{1}{4}$ Hex	D	.195 \pm .003
B	.075 \pm .003	E	.180 \pm .003
C	$\frac{19}{32}$	F	$\frac{3}{32}$

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